# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | | |

M. A. R. 57 (Rule 116)

Measurement Book

No. B

BR-45

Serial No. 1st & Final Bill 22-5-17

Name of Work Improvements to roads and drains at Defence colony in Bagalagunte 567119

Name of Contractor or nature of Agency ward no. 14. Dasavahalli sub division (2nd Coall)

Date of commencement of work

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Est. cost:- Rs. 18,00,000/- | | | | | | |
| | Jobs code no:- 014-17-000017, | | P-code: 1771 | | | | |
| | AS/No:- CE/DZ/AS/60/2016-17, | | Dt: 09/01/2017 | | | | |
| | TS/No:- EE/DD/TS/87/16-17, | | Dt: 10/01/2017 | | | | |
| | Work order no:- EE/DD/WO/06/17-18, | | Dt: 07/04/2017 | | | | |
| | Agency:- Sri. K. Jagadish. | | | | | | |
| | Date of completion:- 20-05-2017 | | | | | | |
| 1) | Earthwork excavation by manual mean in ordinary soil including in removing hard rock through upto 2 mtrs depth and on slope like upto 0.5 m. excavation valid mustar earthed and sides neatly done the dipping length to be | | | | | | |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | levelled unduly after breaking & clods, complete as per specifications = Qty vide premeasurement ref TMB page no: 56783/2 | | | | | | |
| | | 1 | 280.05 | | | $280.05m^3$ Qty. 77.58/cum R. 21726.00 | |
| | 2) For Grading I material, construction of granular sub-base by providing coarse graded crushed stone aggregate of granular sub-base by providing, laying, spreading in uniform layers with motor grader on prepared surface mixing by a mix in plant method with watering at OMC, and compacting with vibratory roller to achieve the desired density, complete as per specifications. dry mix is a place method for coarse graded granular sub base material as per MORTH 400-2 for grading I material. | | | | | | |
| | | | | | | | |



M. A. R. 57 (Rule 116)
Measurement Book

No. B

567120

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor or nature of Agency .....

Date of commencement of work .....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | = Qty vide premeasurement ref TMB page no: 56784/2 | | | | | | |
| | | 1 | 128.35 | | | $128.35m^3$ Qty. 1355.69/cum R. 174003.00 | |
| | 3) providing, carrying spreading and compacting - graded stone aggregate to wet mix macadam specification including, premixing the materials with water at OMC in mechanical mix plant, carriage of mixed, method of tipper to site, laying in uniform layers, with paver in sub-base / base course, on well prepared surface and compacting with vibratory, roller to achieve the desired density, complete as per specifications, specifications no. 406 with all lead and lifts etc, complete as per the directions of Engineer in charge. = Qty vide premeasurement ref TMB page no: 56785/2 | | | | | | |

# MEASUREMENT BOOK

M. A. R. 57 (Rule 116)
Measurement Book

No. B

567121

erial No. .....
lame of Work ..... From..... To.....
lame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | = Qty vide Premeasurement ref Item B Page No: 56786/2 | | | | | |
| | 1750.50 sqm | | | Rate 2.84/sqm | | Rs. 4971.00 | |
| 6) | providing and applying tack coat on the prepared black topped surface at 5 kg per 10 sqm, heating bitumen in boiler fitted with spray, rbs (excluding cleaning of road surface) including cost of all materials, labour, HOM of machinery, complete as per specification | | | | | | |
| | = Qty vide Premeasurement ref Item B Page No: 56787 | | | | | | |
| | 1283.50 sqm | | | Rate 24.60/sqm | | Rs. 31574.00 | |
| 5) | Cleaning the existing black topped surface with broom and finally dusting with dry gunny bags and/or compressed air to receive bituminous treatments including cost of all materials, labour, HOM of machinery complete as per specification | | | | | | |
| | = Qty vide Premeasurement ref Item B Page No: 56786 | | | | | | |
| | 295.21 $m^3$ | | | Rate 1578.01/cum | | Rs. 465844.00 | |
| 4) | providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base made with WBM. work including cleaning of road surface and spraying primer at the rate of 0.6 kg/sqm using mechanical means complete as per specification, with all lead and lift etc. complete as per the directions of Engineer-in-charge | | | | | | |

S.A.

# MEASUREMENT BOOK

M. A. R. 57 (Rule 116)
Measurement Book

No. B 567122

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

| Date 1 | Full description, etc, of work 2 | Dimensions: Number 3 | Length 4 | Breadth 5 | Depth 6 | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | 4 | 1750.50 m² | | Sft. 10.41/ sqm | | R. 18223.00 | |
| 7 | Providing and laying bituminous macadam on prepared surface with crushed coarse aggregate as per dense mix grade for base/ binding course including loading of aggregate and bitumen at hot mix plant mixing & stone aggregate and transporting the mixed material to site in tipper to 40 tonne capacity. transporting the paver and laying, mixed material with paver finisher to the required level and grade. rolling by power roller to achieve the desired density. 50/75 mm compacted thickness, with 3.3% bitumen base excluding the cost of primer / tack coat with leaf including cost of all materials, labour, HSD & machine complete as per specification with 80/100 grade bitumen. mix 40/60 TPH capacity, H.M.P with mechanical paver Gr-II (50/75 mm) with 3.3% VG-30 | | | | | | |
| | | | | | | | |
| | | | | | | | |
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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Pavr 4v - 5 (30mm to 45mm) mix V.G- 30 bitumen. | | | | | | |
| | 1st cross road | 1×1 | 30.00 | (5 + 5.4 / 2) | 0.045 | = 6.75 | |
| | | 1×1 | 30.0 | (5.4 + 5.4 / 2) | 0.045 | = 6.75 | |
| | | 1×1 | 30.0 | (5.4 + 5.6 / 2) | 0.045 | = 6.75 | |
| | | 1×1 | 30.0 | (5.60 + 5.6 / 2) | 0.045 | = 6.75 | |
| | | 1×1 | 20.0 | (5.60 + 5.6 / 2) | 0.045 | = 4.50 | |
| | 1st A. main road : | 1×1 | 30.0 | (5.85 + 5.65 / 2) | 0.045 | = 7.76 | |
| | | 1×1 | 30.0 | (5.6 + 5.45 / 2) | 0.045 | = 7.49 | |
| | | 1×1 | 30.0 | (5.45 + 5.85 / 2) | 0.045 | = 7.62 | |
| | | 1×1 | 30.0 | (5.85 + 5.85 / 2) | 0.045 | = 7.89 | |

E.E. (D.D.)

M. A. R. 57 (Rule 116)
Measurement Book

No. B

567123

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | 1×1 | 30.0 | (5.85 + 5.90 / 2) | 0.045 | = 7.93 | |
| | | 1×1 | 30.0 | (5.90 + 5.85 / 2) | 0.045 | = 7.93 | |
| | | 1×1 | 30.0 | (5.85 + 5.85 / 2) | 0.045 | = 7.89 | |
| | | 1×1 | 30.0 | (5.85 + 5.85 / 2) | 0.045 | = 7.89 | |
| | | 1×1 | 30.0 | (5.85 + 5.90 / 2) | 0.045 | = 7.93 | |
| | | 1×1 | 30.0 | (5.90 + 5.85 / 2) | 0.045 | = 7.93 | |
| | | | | | | 110.47 m | |
| | | | | | | 109.76 | ₹12928=00 |
| | | | | | | ₹ 6488.96/ cum | ₹. 71683.60 |

CPC

E.E. (D.D.)

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9) | Disposal of debries to the final place of disposal with all lead and lift and as directed by the Engineer in charge of the work, Lead & lift of Basic rate of haulage of materials, as per Item. | | | | | | |
| | Supply wide item no 1 | | | | | | |
| | 280.05 m³ @ Rs. 72.11/cum | | | | | Rs. | 20194.0 |
| | Total Rs | | | | | | 1589764.0 |
| | | | | | | | 1585763 =00 |
| | certificate: | | | | | | |
| | It work done is satisfactorily | | | | | | |
| | & all debris clears from the work spot using contractor own | | | | | | |
| | vehicles | | | | | | |

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B**

567124

...erial No. .....
...ame of Work ..... From..... To.....
...ame of Contractor of nature of Agency .....
...ate of commencement of work .....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Audited and admitted for Rs. 1585763 =00
Passed by Cheque for Rs. 1464684 =00
( — )
1204774 =00
By Cheque

Asst. Engineer
B.B.M.P. Basarahalli Division